



U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

DPM 5229
Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME TENAXOL®, INC.	EMERGENCY TELEPHONE NO. (414) 476-1400
ADDRESS (Number, Street, City, State, and ZIP Code) 5801 W. NATIONAL AVE., MILWAUKEE, WISCONSIN 53214	
CHEMICAL NAME AND SYNONYMS POLYALKYLENE GLYCOL SOLUTION IN WATER	TRADE NAME AND SYNONYMS UCON® QUENCHANTS
CHEMICAL FAMILY POLYALKYLENE GLYCOL	FORMULA HO(C-C-O)75 (C-C-O)H25

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		NA	BASE METAL		NA
CATALYST		NA	ALLOYS		NA
VEHICLE		NA	METALLIC COATINGS		NA
SOLVENTS		NA	FILLER METAL PLUS COATING OR CORE FLUX		NA
ADDITIVES		NA	OTHERS		NA
OTHERS		NA	(NA = NOT APPLICABLE)		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
POLYALKYLENE GLYCOL - CAS #9003-11-6				< 50	--
SODIUM OR POTASSIUM NITRITE CAS #7758-09-0				< 3	--
WATER				BALANCE	--
PRODUCTS ARE 45 TO 65% WATER AS SOLD (80 TO 95% WATER AS USED).					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	212	SPECIFIC GRAVITY (H ₂ O=1)	1.1
VAPOR PRESSURE (mm Hg.)	24	PERCENT, VOLATILE BY VOLUME (%)	45-65
VAPOR DENSITY (AIR=1)	0.935	EVAPORATION RATE (WATER =1)	0.5
SOLUBILITY IN WATER (BELOW 165°F) COMPLETE		PH (AS RECEIVED)	7.5-8.5
APPEARANCE AND ODOR PALE YELLOW - ODORLESS			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NONE*	FLAMMABLE LIMITS NONE*	Lel	Uel
EXTINGUISHING MEDIA WATER			
SPECIAL FIRE FIGHTING PROCEDURES NONE - PRODUCT IS SOLUBLE IN WATER BELOW 165°F.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			
*NOTE: CONTAINS OVER 50% WATER. AFTER WATER BOILS AWAY, THE FLASH POINT OF THE RESIDUE IS OVER 500°F.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
NONE ESTABLISHED BY ACGIH OR OSHA

EFFECTS OF OVEREXPOSURE
SKIN - PROLONGED CONTACT MAY CAUSE MILD REVERSIBLE IRRITATION.

EYES - CONTACT MAY CAUSE MILD IRRITATION OR DISCOMFORT. EFFECTS ARE TEMPORARY.

EMERGENCY AND FIRST AID PROCEDURES
EYES - WASH OUT WITH WATER.

SKIN - WASH AFFECTED AREAS THOROUGHLY WITH MILD SOAP AND WATER.

INTERNAL - IF SWALLOWED, GIVE WATER OR MILK TO DRINK AND GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)
NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON-MONOXIDE AND/OR CARBON-DIOXIDE, WATER VAPOR & SMALL AMOUNTS OF OXIDES OF NITROGEN.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
(1) FLUSH SMALL AMOUNTS WITH WATER.

(2) COLLECT LARGE AMOUNTS IN CONTAINER.

(3) RECLAIM FOR SYSTEM.

WASTE DISPOSAL METHOD
FLUSH SMALL AMOUNTS WITH WATER BACK TO SYSTEM OR SEWER. INCINERATE OR BURY LARGE AMOUNTS

IN APPROVED LAND FILLS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
NONE NEEDED IN NORMAL USAGE

VENTILATION	LOCAL EXHAUST SATISFACTORY	SPECIAL NONE
X	MECHANICAL (General) SATISFACTORY	OTHER NONE

PROTECTIVE GLOVES
RUBBER OR PLASTIC

EYE PROTECTION
SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT
EYE BATH AND SAFETY SHOWER

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
HANDLING - NO SPECIAL PRECAUTIONS.

STORAGE - WILL FREEZE BELOW 24°F - CAN BE THAWED WITHOUT DAMAGE

OTHER PRECAUTIONS
FOR INDUSTRY USE ONLY